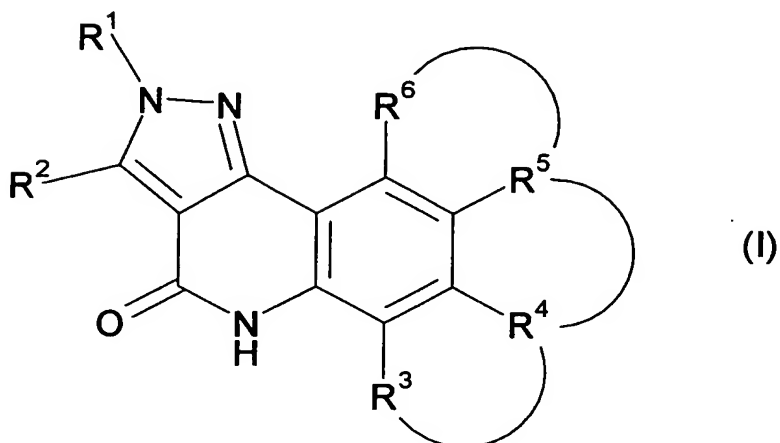


# CLAIMS

1. A compound represented by the formula:



5 wherein R<sup>1</sup> is an aryl group which may be substituted, or an aromatic heterocyclic group which may be substituted; R<sup>2</sup> is a hydrogen atom, an amino group which may be substituted, a hydroxy group which may be substituted, or a thiol group which may be substituted; R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup>, which may be identical or  
 10 different, are each (1) a hydrogen atom, (2) a nitro group, (3) a cyano group, (4) a halogen atom, (5) a hydrocarbon group which may be substituted, (6) an amino group which may be substituted, (7) a hydroxy group which may be substituted, or (8) a thiol group which may be substituted; and R<sup>3</sup> and R<sup>4</sup>, R<sup>4</sup>  
 15 and R<sup>5</sup>, and R<sup>5</sup> and R<sup>6</sup> may respectively form a ring together with the adjacent carbon atom, or a salt thereof.

2. The compound according to Claim 1, wherein R<sup>1</sup> is

(1) a phenyl group which may be substituted with 1 to 5  
 20 substituents selected from: (1') a C<sub>1-6</sub> alkyl group which may be substituted with a substituent selected from a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>6-12</sub> aryl group, a C<sub>7-14</sub> aralkyl group, a (6') hydroxy group, a C<sub>1-6</sub> alkoxy group, a C<sub>6-12</sub> aryloxy group, a C<sub>7-14</sub> aralkyloxy group, a C<sub>1-6</sub> alkyl-  
 25 carbonyloxy group, a C<sub>2-6</sub> alkenyl-carbonyloxy group, a C<sub>2-6</sub> alkynyl-carbonyloxy group, a C<sub>1-6</sub> alkylthio group, a C<sub>6-12</sub> arylthio group, a C<sub>7-14</sub> aralkylthio group, a carboxy group, a C<sub>1-</sub>

6 alkyl-carbonyl group, a C<sub>2-6</sub> alkenyl-carbonyl group, a C<sub>2-6</sub>  
 alkynyl-carbonyl group, a C<sub>6-12</sub> aryl-carbonyl group, a 7-14  
 aralkyl-carbonyl group, a C<sub>1-6</sub> alkoxy-carbonyl group, a C<sub>2-6</sub>  
 alkenyloxy-carbonyl group, a C<sub>2-6</sub> alkynyloxy-carbonyl group, a  
 5 C<sub>6-12</sub> aryloxy-carbonyl group, a C<sub>7-14</sub> aralkyloxy-carbonyl group,  
 a carbamoyl group, a mono-C<sub>1-6</sub> alkyl-carbamoyl group, a di-C<sub>1-6</sub>  
 alkyl-carbamoyl group, a C<sub>1-6</sub> alkylsulfonyl group, a C<sub>2-6</sub>  
 alkenylsulfonyl group, a C<sub>2-6</sub> alkynylsulfonyl group, an amino  
 group, a mono-C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group,  
 10 a mono-C<sub>2-6</sub> alkenylamino group, a di-C<sub>2-6</sub> alkenylamino group, a  
 mono-C<sub>2-6</sub> alkynylamino group, a di-C<sub>2-6</sub> alkynylamino group, a  
 mono-C<sub>6-12</sub> arylamino group, a di-C<sub>6-12</sub> arylamino group, a mono-C<sub>7-14</sub>  
 aralkylamino group, a di-C<sub>7-14</sub> aralkylamino group, a halogen  
 atom, an azido group, a nitro group, a cyano group, a 5- to 8-  
 15 membered heterocyclic group (this heterocyclic group may be  
 substituted with a halogen atom, a hydroxy group, or a C<sub>1-6</sub>  
 alkyl group which may be halogenated), a 5- to 8-membered  
 heterocyclic-oxy group (this heterocyclic moiety may be  
 substituted with a halogen atom, a hydroxy group or a C<sub>1-6</sub> alkyl  
 20 group which may be halogenated), a 5- to 8-membered  
 heterocyclic-carbonyl group (this heterocyclic moiety may be  
 substituted with a halogen atom, a hydroxy group or a C<sub>1-6</sub> alkyl  
 group which may be halogenated), a C<sub>1-4</sub> alkylene group and a C<sub>1-4</sub>  
 alkylenedioxy group (hereinafter, simply referred to as  
 25 Substituent Group C); (2') a C<sub>2-6</sub> alkenyl group which may be  
 substituted with a substituent selected from the Substituent  
 Group C; (3') a C<sub>2-6</sub> alkynyl group which may be substituted with  
 a substituent selected from the Substituent Group C; (4') a C<sub>6-12</sub>  
 aryl group which may be substituted with a substituent  
 30 selected from the Substituent Group C; (5') a C<sub>7-14</sub> aralkyl  
 group which may be substituted with a substituent selected  
 from the Substituent Group C; (6') a hydroxy group; (7') a C<sub>1-6</sub>  
 alkoxy group which may be substituted with a substituent  
 selected from the Substituent Group C; (8') a C<sub>6-12</sub> aryloxy  
 35 group which may be substituted with a substituent selected

from the Substituent Group C; (9') a C<sub>7-14</sub> aralkyloxy group which may be substituted with a substituent selected from the Substituent Group C; (10') a C<sub>1-6</sub> alkyl-carbonyloxy group which may be substituted with a substituent selected from the

5 Substituent Group C; (11') a C<sub>2-6</sub> alkenyl-carbonyloxy group which may be substituted with a substituent selected from the Substituent Group C; (12') a C<sub>2-6</sub> alkynyl-carbonyloxy group which may be substituted with a substituent selected from the Substituent Group C; (13') a C<sub>1-6</sub> alkylthio group which may be

10 substituted with a substituent selected from the Substituent Group C; (14') a C<sub>6-12</sub> arylthio group which may be substituted with a substituent selected from the Substituent Group C; (15') a C<sub>7-14</sub> aralkylthio group which may be substituted with a substituent selected from the Substituent Group C; (16') a

15 carboxy group; (17') a C<sub>1-6</sub> alkyl-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (18') a C<sub>2-6</sub> alkenyl-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (19') a C<sub>2-6</sub> alkynyl-carbonyl group which may be

20 substituted with a substituent selected from the Substituent Group C; (20') a C<sub>6-12</sub> aryl-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (21') a C<sub>7-14</sub> aralkyl-carbonyl group which may be substituted with a substituent selected from the Substituent

25 Group C; (22') a C<sub>1-6</sub> alkoxy-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (23') a C<sub>2-6</sub> alkenyloxy-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (24') a C<sub>2-6</sub> alkynyloxy-carbonyl group which may be

30 substituted with a substituent selected from the Substituent Group C; (25') a C<sub>6-12</sub> aryloxy-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (26') a C<sub>7-14</sub> aralkyloxy-carbonyl group which may be substituted with a substituent selected from the Substituent

35 Group C; (27') a carbamoyl group; (28') a mono-C<sub>1-6</sub> alkyl-

carbamoyl group which may be substituted with a substituent selected from the Substituent Group C; (29') a di-C<sub>1-6</sub> alkyl-carbamoyl group which may be substituted with a substituent selected from the Substituent Group C; (30') a C<sub>1-6</sub> alkylsulfonyl group which may be substituted with a substituent selected from the Substituent Group C; (31') a C<sub>2-6</sub> alkenylsulfonyl group which may be substituted with a substituent selected from the Substituent Group C; (32') a C<sub>2-6</sub> alkynylsulfonyl group which may be substituted with a substituent selected from the Substituent Group C; (33') an amino group; (34') a mono-C<sub>1-6</sub> alkylamino group which may be substituted with a substituent selected from the Substituent Group C; (35') a di-C<sub>1-6</sub> alkylamino group which may be substituted with a substituent selected from the Substituent Group C; (36') a mono-C<sub>2-6</sub> alkenylamino group which may be substituted with a substituent selected from the Substituent Group C; (37') a di-C<sub>2-6</sub> alkenylamino group which may be substituted with a substituent selected from the Substituent Group C; (38') a mono-C<sub>2-6</sub> alkynylamino group which may be substituted with a substituent selected from the Substituent Group C; (39') a di-C<sub>2-6</sub> alkynylamino group which may be substituted with a substituent selected from the Substituent Group C; (40') a mono-C<sub>6-12</sub> arylamino group which may be substituted with a substituent selected from the Substituent Group C; (41') a di-C<sub>6-12</sub> arylamino group which may be substituted with a substituent selected from the Substituent Group C; (42') a mono-C<sub>7-14</sub> aralkylamino group which may be substituted with a substituent selected from the Substituent Group C; (43') a di-C<sub>7-14</sub> aralkylamino group which may be substituted with a substituent selected from the Substituent Group C; (44') a mono-5- to 8-membered heterocyclic amino group which may be substituted with a substituent selected from the Substituent Group C; (45') a di-5- to 8-membered heterocyclic amino group which may be substituted with a substituent selected from the Substituent Group C; (46') a (C<sub>1-6</sub>

alkyl which may be substituted with a substituent selected from the Substituent Group C) (a 5- to 8-membered heterocyclic which may be substituted with a substituent selected from the Substituent Group C) amino group; (47') a halogen atom; (48')  
5 an azido group; (49') a nitro group; (50') a cyano group; (51') a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from the Substituent Group C; (52') a 5- to 8-membered heterocyclic-oxy group which may be substituted with a substituent selected from the  
10 Substituent Group C; (53') a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (54') a C<sub>1-4</sub> alkylene group; and (55') a C<sub>1-4</sub> alkylenedioxy group (hereinafter, simply referred to Substituent Group A),

15 (2) a 5- or 6-membered aromatic heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A, or

(3) a group resulting from condensation of the 5- or 6-membered aromatic heterocyclic group which may be substituted  
20 with 1 to 5 substituents selected from the Substituent Group A, with a benzene ring;

R<sup>2</sup> is

(1) a hydrogen atom,

(2) an amino group which may be mono- or di- substituted  
25 with a substituent selected from: a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl group which may be  
30 substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group  
35 A; a C<sub>7-11</sub> aralkyl group which may be substituted with 1 to 5

substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
 alkyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkenyl-carbonyl group which may be substituted with 1 to 5  
 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkynyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>3-6</sub>  
 cycloalkyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 10 aryl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 aralkyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
 alkoxy-carbonyl group which may be substituted with 1 to 5  
 15 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkenyloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkynyloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>3-6</sub>  
 20 cycloalkyloxy-carbonyl group which may be substituted with 1  
 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 aryloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 aralkyloxy-carbonyl group which may be substituted with 1 to 5  
 25 substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
 alkylsulfonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 arylsulfonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 30 aralkylsulfonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a 5- to 8-  
 membered heterocyclic group which may be substituted with 1 to  
 5 substituents selected from the Substituent Group A; a 5- to  
 8-membered heterocyclic-carbonyl group which may be  
 35 substituted with 1 to 5 substituents selected from the

Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(3) a hydroxy group which may be substituted with a substituent selected from: a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub>

alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkylsulfonyloxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> arylsulfonyloxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkylsulfonyloxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(4) a thiol group which may be substituted with a substituent selected from: a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl group which may be substituted with 1 to 5 substituents selected from the



Substituent Group A; a C<sub>2-6</sub> alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-oxy group which may be substituted

with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic oxy-  
5 carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(5) a C<sub>1-6</sub> alkylsulfinyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

10 (6) a C<sub>6-10</sub> arylsulfinyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(7) a C<sub>1-6</sub> alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group  
15 A, or

(8) a C<sub>6-10</sub> arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A;

R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup>, which may be identical or different,  
20 are each:

(1) a hydrogen atom,

(2) a nitro group,

(3) a cyano group,

(4) a halogen atom,

25 (5) a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(6) a C<sub>2-6</sub> alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(7) a C<sub>2-6</sub> alkynyl group which may be substituted with 1  
30 to 5 substituents selected from the Substituent Group A,

(8) a C<sub>3-6</sub> cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(9) a C<sub>6-10</sub> aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

35 (10) a C<sub>7-11</sub> aralkyl group which may be substituted with 1

to 5 substituents selected from the Substituent Group A,

(11) a C<sub>1-6</sub> alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

5 (12) a C<sub>2-6</sub> alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(13) a C<sub>2-6</sub> alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the  
10 Substituent Group A,

(14) a C<sub>3-6</sub> cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(15) a C<sub>6-10</sub> aryl-carbonyl group which may be substituted  
15 with 1 to 5 substituents selected from the Substituent Group A,

(16) a C<sub>7-11</sub> aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

20 (17) a C<sub>1-6</sub> alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(18) a C<sub>2-6</sub> alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the  
25 Substituent Group A,

(19) a C<sub>2-6</sub> alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(20) a C<sub>3-6</sub> cycloalkyloxy-carbonyl group which may be  
30 substituted with 1 to 5 substituents selected from the Substituent Group A,

(21) a C<sub>6-10</sub> aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

35 (22) a C<sub>7-11</sub> aralkyloxy-carbonyl group which may be

substituted with 1 to 5 substituents selected from the Substituent Group A,

(23) a carbamoyl group which may be mono- or di-substituted with a substituent selected from: a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub>

aryloxy-carbonyl group which may be substituted with 1 to 5  
substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
aralkyloxy-carbonyl group which may be substituted with 1 to 5  
substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
5 alkylsulfonyl group which may be substituted with 1 to 5  
substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
arylsulfonyl group which may be substituted with 1 to 5  
substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
aralkylsulfonyl group which may be substituted with 1 to 5  
10 substituents selected from the Substituent Group A; a 5- to 8-  
membered heterocyclic group which may be substituted with 1 to  
5 substituents selected from the Substituent Group A; a 5- to  
8-membered heterocyclic-carbonyl group which may be  
substituted with 1 to 5 substituents selected from the  
15 Substituent Group A; a 5- to 8-membered heterocyclic oxy-  
carbonyl group which may be substituted with 1 to 5  
substituents selected from the Substituent Group A; and a 5-  
to 8-membered heterocyclic sulfonyl group which may be  
substituted with 1 to 5 substituents selected from the  
20 Substituent Group A,

(24) a sulfamoyl group which may be mono- or di-  
substituted with a substituent selected from: a C<sub>1-6</sub> alkyl group  
which may be substituted with 1 to 5 substituents selected  
from the Substituent Group A; a C<sub>2-6</sub> alkenyl group which may be  
25 substituted with 1 to 5 substituents selected from the  
Substituent Group A; a C<sub>2-6</sub> alkynyl group which may be  
substituted with 1 to 5 substituents selected from the  
Substituent Group A; a C<sub>3-6</sub> cycloalkyl group which may be  
substituted with 1 to 5 substituents selected from the  
30 Substituent Group A; a C<sub>6-10</sub> aryl group which may be substituted  
with 1 to 5 substituents selected from the Substituent Group  
A; a C<sub>7-11</sub> aralkyl group which may be substituted with 1 to 5  
substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
alkyl-carbonyl group which may be substituted with 1 to 5  
35 substituents selected from the Substituent Group A; a C<sub>2-6</sub>

alkenyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkynyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>3-6</sub>  
 5 cycloalkyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 aryl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 aralkyl-carbonyl group which may be substituted with 1 to 5  
 10 substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
 alkoxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkenyloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 15 alkynyloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>3-6</sub>  
 cycloalkyloxy-carbonyl group which may be substituted with 1  
 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 aryloxy-carbonyl group which may be substituted with 1 to 5  
 20 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 aralkyloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
 alkylsulfonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 25 arylsulfonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 aralkylsulfonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a 5- to 8-  
 membered heterocyclic group which may be substituted with 1 to  
 30 5 substituents selected from the Substituent Group A; a 5- to  
 8-membered heterocyclic-carbonyl group which may be  
 substituted with 1 to 5 substituents selected from the  
 Substituent Group A; a 5- to 8-membered heterocyclic oxy-  
 carbonyl group which may be substituted with 1 to 5  
 35 substituents selected from the Substituent Group A; and a 5-

to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(25) an amino group which may be mono- or di-substituted with  
5 a substituent selected from: a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl group which may be  
10 substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group  
15 A; a C<sub>7-11</sub> aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl-carbonyl group which may be substituted with 1 to 5  
20 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
25 aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkoxy-carbonyl group which may be substituted with 1 to 5  
30 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub>  
35 cycloalkyloxy-carbonyl group which may be substituted with 1

to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(26) a hydroxy group which may be substituted with a substituent selected from: a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl-carbonyl group which may be substituted with 1 to 5



substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkynyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>3-6</sub>  
 cycloalkyl-carbonyl group which may be substituted with 1 to 5  
 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 aryl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 aralkyl-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
 10 alkoxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkenyloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>2-6</sub>  
 alkynyloxy-carbonyl group which may be substituted with 1 to 5  
 15 substituents selected from the Substituent Group A; a C<sub>3-6</sub>  
 cycloalkyloxy-carbonyl group which may be substituted with 1  
 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 aryloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 20 aralkyloxy-carbonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
 alkylsulfonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 arylsulfonyl group which may be substituted with 1 to 5  
 25 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 aralkylsulfonyl group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>1-6</sub>  
 alkylsulfonyloxy group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>6-10</sub>  
 30 arylsulfonyloxy group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a C<sub>7-11</sub>  
 aralkylsulfonyloxy group which may be substituted with 1 to 5  
 substituents selected from the Substituent Group A; a 5- to 8-  
 membered heterocyclic group which may be substituted with 1 to  
 35 5 substituents selected from the Substituent Group A; a 5- to

8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(27) a thiol group which may be substituted with a substituent selected from: a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>1-6</sub> alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub>

alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>2-6</sub> alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>3-6</sub> cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>6-10</sub> aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C<sub>7-11</sub> aralkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-oxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(28) a C<sub>1-6</sub> alkylsulfinyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(29) a C<sub>6-10</sub> arylsulfinyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(30) a C<sub>1-6</sub> alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A, or

(31) a C<sub>6-10</sub> arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A;

or R<sup>3</sup> and R<sup>4</sup>, R<sup>4</sup> and R<sup>5</sup>, and R<sup>5</sup> and R<sup>6</sup> respectively form, together with the adjacent carbon atom, (1) a 5- to 8-membered homocyclic ring which may be substituted with 1 to 5 substituents selected from the Substituent Group A, or (2) a

5- to 8-membered heterocyclic ring which may be substituted with 1 to 5 substituents selected from the Substituent Group A, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom.

5

3. The compound according to Claim 1, wherein  $R^1$  is a substituted aryl group, or an aromatic heterocyclic group which may be substituted.

10 4. The compound according to Claim 1, wherein at least one of  $R^3$ ,  $R^4$ ,  $R^5$  and  $R^6$  is a nitro group, a cyano group, a hydrocarbon group which may be substituted, an amino group which may be substituted, a hydroxy group which may be substituted, or a thiol group which may be substituted.

15

5. The compound according to Claim 1, wherein  $R^4$  is an amino group which may be substituted, or a hydroxy group which may be substituted.

20 6. The compound according to Claim 1, wherein  $R^1$  is:

(1) a  $C_{6-12}$  aryl group which may be substituted with 1 to 3 substituents selected from:

(a) a  $C_{1-6}$  alkyl group which may be substituted with 1 to 3 substituents selected from

25

(i) a halogen atom,

(ii) a hydroxy group, and

(iii) a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from a hydroxy group and a  $C_{1-6}$  alkyl group, and has 1 to 3 heteroatoms

30 selected from a nitrogen atom, an oxygen atom and a sulfur atom;

(b) a  $C_{1-6}$  alkoxy group which may be substituted with a substituent selected from

(i) a hydroxy group,

35

(ii) a  $C_{1-6}$  alkoxy group,

- (iii) a carboxy group,
  - (iv) a C<sub>1-6</sub> alkoxy-carbonyl group,
  - (v) a carbamoyl group,
  - (vi) a carbamoyl group which is mono- or di-  
5 substituted with a C<sub>1-6</sub> alkyl group which may be substituted  
with a substituent selected from a hydroxy group and a C<sub>1-6</sub>  
alkylsulfonyl group, and
  - (viii) a 5- to 8-membered heterocyclic group  
having 1 to 3 heteroatoms selected from a nitrogen atom, an  
10 oxygen atom and a sulfur atom;
  - (c) a halogen atom;
  - (d) a hydroxy group;
  - (e) an amino group;
  - (f) a nitro group;
  - 15 (g) a carboxy group;
  - (h) a C<sub>1-6</sub> alkoxy-carbonyl group;
  - (i) a C<sub>1-6</sub> alkyl-carbonyloxy group;
  - (j) a C<sub>6-12</sub> aryloxy group which may be substituted with  
a substituent selected from a halogen atom, a hydroxy group  
20 and a C<sub>1-6</sub> alkoxy group;
  - (k) a C<sub>6-14</sub> aralkyloxy group;
  - (l) a C<sub>3-7</sub> cycloalkyloxy group;
  - (m) a 5- to 8-membered heterocyclic-oxy group which  
may be substituted with a C<sub>1-6</sub> alkyl group, and has 1 to 3  
25 heteroatoms selected from a nitrogen atom, an oxygen atom and  
a sulfur atom;
  - (n) a C<sub>1-6</sub> alkylsulfonyl group; and
  - (o) a C<sub>6-12</sub> arylsulfonyl group,
- or
- 30 (2) a 5- or 6-membered aromatic heterocyclic group which  
may be substituted with 1 to 3 substituents selected from:
    - (a) a C<sub>1-6</sub> alkyl group, and
    - (b) a C<sub>1-6</sub> alkoxy group,and has 1 to 3 heteroatoms selected from a nitrogen atom, an  
35 oxygen atom and a sulfur atom, or a group resulting from

condensation of the 5- or 6-membered aromatic heterocyclic group with a benzene ring;

$R^2$  is:

- (1) a hydrogen atom, or  
5 (2) an amino group which may be mono- or di-substituted with a  $C_{1-6}$  alkyl group;

$R^3$  is a hydrogen atom;

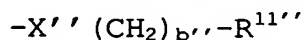
$R^4$  is:

- (1) a hydrogen atom,  
10 (2) a nitro group,  
(3) an amino group,  
(4) a hydroxy group,  
(5) a  $C_{1-6}$  alkoxy group which may be substituted with a substituent selected from:

- 15 (a) a hydroxy group,  
(b) a cyano group,  
(c) a  $C_{1-6}$  alkoxy group,  
(d) a carboxy group,  
(e) a  $C_{1-6}$  alkoxy-carbonyl group,  
20 (f) a carbamoyl group,  
(g) a carbamoyl group which is mono- or di-substituted with a  $C_{1-6}$  alkyl group, and  
(h) an amino group which may be mono- or di-substituted with a  $C_{1-6}$  alkyl group,

25 or

(6) a group represented by the formula:



wherein  $X''$  is  $-O-$ ,  $-NHSO_2-$ ,  $-NHCO-$  or  $-NR^{12''}-$  (wherein  $R^{12''}$  is a hydrogen atom, or a  $C_{1-6}$  alkyl group which may be substituted  
30 with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom, and a sulfur atom),

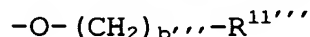
$b''$  is an integer from 1 to 4, and

$R^{11''}$  is a 5- to 8-membered heterocyclic group which may  
35 be substituted with a substituent selected from

(a) a hydroxy group, and  
(b) a C<sub>1-6</sub> alkyl group,  
and has 1 to 3 heteroatoms selected from a nitrogen atom, an  
oxygen atom and a sulfur atom;

5 R<sup>5</sup> is:

- (1) a hydrogen atom,
- (2) a C<sub>1-6</sub> alkoxy group, or
- (3) a group represented by the formula:



10 wherein b''' is an integer from 2 to 4, and

R<sup>11'''</sup> is a 5- to 8-membered heterocyclic group which may  
be substituted with a substituent selected from

- (a) a C<sub>1-6</sub> alkyl group, and
- (b) a C<sub>6-14</sub> aryl group which may be substituted with a  
15 halogen atom, and has 1 to 3 heteroatoms selected from a  
nitrogen atom, an oxygen atom and a sulfur atom;

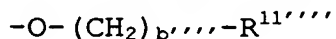
R<sup>6</sup> is:

- (1) a hydrogen atom,
- (2) a hydroxy group,
- 20 (3) a C<sub>1-6</sub> alkoxy group which may be substituted with a  
substituent selected from:
  - (a) a hydroxy group,
  - (b) a C<sub>1-6</sub> alkoxy group,
  - (c) a carboxy group,
  - 25 (d) a C<sub>1-6</sub> alkoxy-carbonyl group,
  - (e) a carbamoyl group,
  - (f) a carbamoyl group which is mono- or di-substituted  
with a C<sub>1-6</sub> alkyl group which may be substituted with an amino  
group which may be mono- or di-substituted with a C<sub>1-6</sub> alkyl  
30 group,
  - (g) a carbamoyl group which is mono- or di-substituted  
with a 5- to 8-membered heterocyclic group having 1 to 3  
heteroatoms selected from a nitrogen atom, an oxygen atom and  
a sulfur atom, and
  - 35 (h) a 5- to 8-membered heterocyclic-carbonyl group

which may be substituted with a C<sub>1-6</sub> alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom,

(4) a C<sub>7-14</sub> aralkyloxy group, or

5 (5) a group represented by the formula:



wherein b'''' is an integer from 1 to 4, and

R<sup>11''''</sup> is a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom  
10 and a sulfur atom.

7. The compound according to Claim 1, wherein R<sup>1</sup> is a C<sub>6-12</sub> aryl group which may be substituted with 1 to 3 substituents selected from:

15 (a) a C<sub>1-6</sub> alkyl group which may be substituted with 1 to 3 substituents selected from:

(i) a halogen atom,

(ii) a hydroxy group, and

(iii) a 5- to 8-membered heterocyclic group which may  
20 be substituted with a substituent selected from a hydroxy group, a halogen atom and a C<sub>1-6</sub> alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom,

(b) a C<sub>1-6</sub> alkoxy group which may be substituted with a  
25 substituent selected from:

(i) a hydroxy group,

(ii) a C<sub>1-6</sub> alkoxy group,

(iii) a carboxy group,

(iv) a C<sub>1-6</sub> alkoxy-carbonyl group,

30 (v) a carbamoyl group, and

(vi) a carbamoyl group which is mono- or di-substituted with a C<sub>1-6</sub> alkyl group,

(c) a halogen atom,

(d) a hydroxy group,

35 (i) a C<sub>1-6</sub> alkyl-carbonyloxy group,



(j) a C<sub>6-12</sub> aryloxy group which may be substituted with a halogen atom, and

(m) a 5- to 8-membered heterocyclic-oxy group which may be substituted with a C<sub>1-6</sub> alkyl group, and has 1 to 3  
5 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

R<sup>2</sup> is:

(1) a hydrogen atom, or

(2) an amino group which may be mono- or di-substituted  
10 with a C<sub>1-6</sub> alkyl group;

R<sup>3</sup> is a hydrogen atom;

R<sup>4</sup> is:

(1) a hydrogen atom,

(2) a nitro group,

15 (3) an amino group,

(4) a hydroxy group,

(5) a C<sub>1-6</sub> alkoxy group which may be substituted with a substituent selected from:

(a) a hydroxy group,

20 (b) a cyano group,

(c) a C<sub>1-6</sub> alkoxy group,

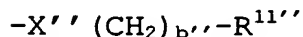
(d) a carboxy group,

(e) a C<sub>1-6</sub> alkoxy-carbonyl group,

(f) a carbamoyl group, and

25 (g) a carbamoyl group which is mono- or di-substituted with a C<sub>1-6</sub> alkyl group, or

(6) a group represented by the formula:



wherein X'' is -O-, -NR<sup>12''</sup>- (wherein R<sup>12''</sup> is a hydrogen atom,  
30 or a C<sub>1-6</sub> alkyl group which may be substituted with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom);

b'' is an integer from 1 to 4; and

R<sup>11''</sup> is a 5- to 8-membered heterocyclic group which may  
35 be substituted with a substituent selected from:

(a) a hydroxy group, and  
(b) a C<sub>1-6</sub> alkyl group,  
and has 1 to 3 heteroatoms selected from a nitrogen atom, an  
oxygen atom and a sulfur atom;

5 R<sup>5</sup> is:

- (1) a hydrogen atom, or
- (2) a C<sub>1-6</sub> alkoxy group;

R<sup>6</sup> is:

- (1) a hydrogen atom, or
- 10 (2) a C<sub>1-6</sub> alkoxy group which may be substituted with a  
substituent selected from:

- (a) a hydroxy group,
- (b) a C<sub>1-6</sub> alkoxy group,
- (c) a carboxy group,

- 15 (d) a C<sub>1-6</sub> alkoxy-carbonyl group,
- (e) a carbamoyl group,

- (f) a carbamoyl group which is mono- or di-substituted  
with a C<sub>1-6</sub> alkyl group which may be substituted with an amino  
group which may be mono- or di-substituted with a C<sub>1-6</sub> alkyl  
20 group,

- (g) a carbamoyl group which is mono- or di-substituted  
with a 5- to 8-membered heterocyclic group having 1 to 3  
heteroatoms selected from a nitrogen atom, an oxygen atom and  
a sulfur atom, and

- 25 (h) a 5- to 8-membered heterocyclic-carbonyl group  
which may be substituted with a C<sub>1-6</sub> alkyl group, and has 1 to 3  
heteroatoms selected from a nitrogen atom, an oxygen atom and  
a sulfur atom.

30 8. The compound according to Claim 1, wherein R<sup>1</sup> is (1) a  
phenyl group which may be substituted with 1 to 3 substituents  
selected from: (a) a C<sub>1-6</sub> alkyl group which may be substituted  
with 1 to 3 halogen atoms or hydroxy groups, (b) a C<sub>1-6</sub> alkoxy  
group, (c) a C<sub>1-6</sub> alkyl-carboxyloxy group, (d) a C<sub>1-6</sub> alkoxy-  
35 carbonyl group, (e) a C<sub>1-6</sub> alkyl-carbonyl group, (f) a C<sub>1-6</sub>

alkylsulfonyl group, (g) a halogen atom, (h) a hydroxy group, (i) an amino group, (j) a nitro group, (k) a carboxy group, (l) a cyano group, (m) a C<sub>6-12</sub> aryloxy group, (n) a C<sub>7-14</sub> aralkyloxy group, (o) a C<sub>6-12</sub> aryl-carbonyl group, (p) a C<sub>7-14</sub> aralkyl-carbonyl group, (q) a mono-C<sub>1-6</sub> alkylamino group, (r) a di-C<sub>1-6</sub> alkylamino group, (s) a C<sub>6-12</sub> arylamino group, and (t) a C<sub>7-14</sub> aralkylamino group (hereinafter, simply referred to as Substituent Group B), (2) a pyridyl group which may be substituted with 1 to 3 substituents selected from the Substituent Group B, (3) a thiazolyl group which may be substituted with 1 to 3 substituents selected from the Substituent Group B, or (4) a pyrimidinyl group which may be substituted with 1 to 3 substituents selected from the Substituent Group B;

15        R<sup>2</sup> is (1) a hydrogen atom, (2) an amino group which may be mono- or di-substituted with (a) a C<sub>1-6</sub> alkyl group, or (b) a C<sub>1-6</sub> alkyl-carbonyl group, or (3) a hydroxy group which may be substituted with (a) a C<sub>1-6</sub> alkyl group, or (b) a C<sub>1-6</sub> alkyl-carbonyl group;

20        R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup>, which may be identical or different, are each (1) a hydrogen atom, (2) a cyano group, (3) a halogen atom, (4) a C<sub>1-6</sub> alkyl group, (5) an amino group, (6) a hydroxy group, (7) a C<sub>1-6</sub> alkoxy group which may be substituted with a C<sub>1-6</sub> alkoxy group, or (8) a group represented by the formula: -

25        X(CH<sub>2</sub>)<sub>b</sub>-R<sup>11</sup> [wherein X is -O-, -S-, -S(O)-, -S(O)<sub>2</sub>-, -NR<sup>12</sup>-, -OSO<sub>2</sub>-, -NR<sup>12</sup>CO-, -NR<sup>12</sup>SO<sub>2</sub>-, -CONR<sup>12</sup>- or -SO<sub>2</sub>NR<sup>12</sup>- (wherein R<sup>12</sup> is a hydrogen atom or a C<sub>1-6</sub> alkyl group); b is an integer from 2 to 4; R<sup>11</sup> is (a) a piperidyl group which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, (b) a piperazinyl group

30        which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, (c) a morpholinyl group which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, or (d) a pyrrolidinyl group which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group]; or R<sup>3</sup> and R<sup>4</sup>, R<sup>4</sup> and R<sup>5</sup>, and R<sup>5</sup> and R<sup>6</sup> respectively form,

35        together with the adjacent carbon atom, (1) a 5- to 8-membered

homocyclic ring, or (2) a 5- to 8-membered heterocyclic ring having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom.

5 9. The compound according to Claim 1, wherein  $R^1$  is (1) a phenyl group which may be substituted with 1 to 3 substituents selected from (a) a  $C_{1-3}$  alkyl group which may be substituted with 1 to 3 halogen atoms or hydroxy groups, (b) a  $C_{1-3}$  alkoxy group, (c) a  $C_{1-3}$  alkyl-carbonyloxy group, (d) a halogen atom,  
10 (e) a hydroxy group, (f) an amino group, and (g) a cyano group (hereinafter, simply referred to as Substituent Group C), or (2) a pyridyl group which may be substituted with 1 to 3 substituents selected from the Substituent Group C;

$R^2$  is a hydrogen atom or an amino group;

15  $R^3$  is (1) a hydrogen atom, (2) a cyano group, (3) a halogen atom, (4) a  $C_{1-6}$  alkyl group, (5) an amino group, (6) a hydroxy group, or (7) a  $C_{1-6}$  alkoxy group;

$R^4$ ,  $R^5$  and  $R^6$ , which may be identical or different, are each (1) a hydrogen atom, (2) a cyano group, (3) a halogen  
20 atom, (4) a  $C_{1-6}$  alkyl group, (5) an amino group, (6) a hydroxy group, (7) a  $C_{1-6}$  alkoxy group which may be substituted with a  $C_{1-6}$  alkoxy group, or (8) a group represented by the formula:  $-X(CH_2)_b-R^{11}$  [wherein X is  $-O-$ ,  $-NR^{12}-$ ,  $-OSO_2-$ ,  $-NR^{12}CO-$ ,  $-NR^{12}SO_2-$ ,  $-CONR^{12}-$  or  $-SO_2NR^{12}-$  (wherein  $R^{12}$  is a hydrogen atom or a  $C_{1-6}$   
25 alkyl group); b is an integer from 2 to 4;  $R^{11}$  is (a) a piperidyl group which may be substituted with a hydroxy group or a  $C_{1-6}$  alkyl group, (b) a piperazinyl group which may be substituted with a hydroxy group or a  $C_{1-6}$  alkyl group, (c) a morpholinyl group which may be substituted with a hydroxy  
30 group or a  $C_{1-6}$  alkyl group, or (d) a pyrrolidinyl group which may be substituted with a hydroxy group or a  $C_{1-6}$  alkyl group]; or  $R^3$  and  $R^4$ ,  $R^4$  and  $R^5$ , and  $R^5$  and  $R^6$  respectively form, together with the adjacent carbon atom, (1) a 5- to 8-membered homocyclic ring, or (2) a 5- to 8-membered heterocyclic ring  
35 having 1 to 3 heteroatoms selected from a nitrogen atom, an

oxygen atom and a sulfur atom.

10. The compound according to Claim 1, wherein  $R^1$  is a phenyl group which may be substituted with 1 to 3 substituents  
5 selected from (a) a  $C_{1-3}$  alkyl group which may be substituted with 1 to 3 halogen atoms or hydroxy groups, (b) a  $C_{1-3}$  alkoxy group, (c) a  $C_{1-3}$  alkyl-carbonyloxy group, (d) a halogen atom, (e) a hydroxy group, (f) an amino group, and (g) a cyano group;  
10  $R^2$  is a hydrogen atom or an amino group;  
 $R^3$  is a hydrogen atom;  
 $R^4$ ,  $R^5$  and  $R^6$ , which may be identical or different, are each (1) a hydrogen atom, (2) a cyano group, (3) a halogen atom, (4) a  $C_{1-6}$  alkyl group, (5) an amino group, (6) a hydroxy  
15 group, (7) a  $C_{1-6}$  alkoxy group which may be substituted with a  $C_{1-6}$  alkoxy group, or (8) a group represented by the formula:  $-X(CH_2)_b-R^{11}$  [wherein X is  $-O-$ ,  $-NR^{12}-$ ,  $-OSO_2-$ ,  $-NR^{12}CO-$ ,  $-NR^{12}SO_2-$  (wherein  $R^{12}$  is a hydrogen atom or a  $C_{1-6}$  alkyl group); b is an integer from 2 to 4; and  $R^{11}$  is (a) a piperidyl group which may  
20 be substituted with a hydroxy group or a  $C_{1-6}$  alkyl group, (b) a piperazinyl group which may be substituted with a hydroxy group or a  $C_{1-6}$  alkyl group, (c) a morpholinyl group which may be substituted with a hydroxy group or a  $C_{1-6}$  alkyl group, or (d) a pyrrolidinyl group which may be substituted with a  
25 hydroxy group or a  $C_{1-6}$  alkyl group]; or  $R^3$  and  $R^4$ ,  $R^4$  and  $R^5$ , and  $R^5$  and  $R^6$  respectively form, together with the adjacent carbon atom, (1) a 5- to 8-membered homocyclic ring, or (2) a 5- to 8-membered heterocyclic ring having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur  
30 atom.

11. The compound according to Claim 1, wherein  $R^1$  is a phenyl group which may be substituted with 1 to 3 substituents selected from (a) a  $C_{1-3}$  alkyl group, (b) a  $C_{1-3}$  alkoxy group,  
35 (c) a halogen atom, and (d) a hydroxy group.

12. The compound according to Claim 1, wherein R<sup>2</sup> is a hydrogen atom or an amino group.

5 13. The compound according to Claim 1, wherein R<sup>4</sup> is (1) a hydrogen atom, (2) a C<sub>1-6</sub> alkoxy group which may be substituted with a C<sub>1-6</sub> alkoxy group, or (3) a group represented by the formula: -X' (CH<sub>2</sub>)<sub>b'</sub> -R<sup>11'</sup> (wherein X' is -O- or -NH-; b' is an integer from 2 to 4; and R<sup>11'</sup> is (1') a piperidyl group which  
10 may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, (2') a piperazinyl group which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, (3') a morpholinyl group which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, or (4') a pyrrolidinyl group which may be substituted  
15 with a hydroxy group or a C<sub>1-6</sub> alkyl group).

14. The compound according to Claim 1, wherein R<sup>5</sup> is (1) a hydrogen atom, (2) a C<sub>1-6</sub> alkoxy group which may be substituted with a C<sub>1-6</sub> alkoxy group, or (3) a group represented by the  
20 formula: -X' (CH<sub>2</sub>)<sub>b'</sub> -R<sup>11'</sup> (wherein X' is -O- or -NH-; b' is an integer from 2 to 4; R<sup>11'</sup> is (1') a piperidyl group which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, (2') a piperazinyl group which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, (3') a morpholinyl group which may  
25 be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group, or (4') a pyrrolidinyl group which may be substituted with a hydroxy group or a C<sub>1-6</sub> alkyl group).

15. The compound according to Claim 1, wherein R<sup>6</sup> is a  
30 hydrogen atom, or a C<sub>1-6</sub> alkoxy group which may be substituted with a C<sub>1-6</sub> alkoxy group.

16. The compound according to Claim 1, which is 3-amino-7,8-dimethoxy-2-(5-hydroxy-2-methylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-  
35

5 methylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(2-chloro-5-hydroxyphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(2-chloro-5-hydroxyphenyl)-7-(3-morpholin-4-ylpropoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(2-chloro-5-hydroxyphenyl)-7-(2-morpholin-4-ylethoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-methylphenyl)-7-(3-morpholin-4-ylpropoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-methylphenyl)-7-(2-morpholin-4-ylethoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-methyl-4-phenoxyphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-[4-(2,6-difluorophenoxy)-5-hydroxy-2-methylphenyl]-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-7-(2-hydroxyethoxy)-2-(5-hydroxy-2-methylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2,4-dimethylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-7-(2-hydroxyethoxy)-2-(5-hydroxy-2-methyl-4-phenoxyphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one,  
20 or a salt thereof.

17. A prodrug of the compound according to Claim 1.

18. A medicine comprising the compound according to Claim 1 or  
25 a prodrug thereof.

19. The medicine according to Claim 18, which is a kinase inhibitor.

30 20. The medicine according to Claim 18, which is an Src inhibitor.

21. The medicine according to Claim 18, which is an agent for the prophylaxis and/or treatment of cancer.

22. The medicine according to Claim 18, which is an agent for the prophylaxis and/or treatment of breast cancer, renal cancer, urinary bladder cancer, oral cavity cancer, laryngeal cancer, esophageal cancer, stomach cancer, colon cancer,  
5 ovarian cancer, lung cancer, pancreatic cancer, liver cancer, prostate cancer or skin cancer.

23. The medicine according to Claim 18, which is an agent for the prophylaxis and/or treatment of osteoporosis.

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24. A method of inhibiting kinase which comprises administrating an effective amount of the compound according to Claim 1 or a prodrug thereof to a mammal.

15 25. A method of preventing and/or treating cancer which comprises administrating an effective amount of the compound according to Claim 1 or a prodrug thereof to a mammal.

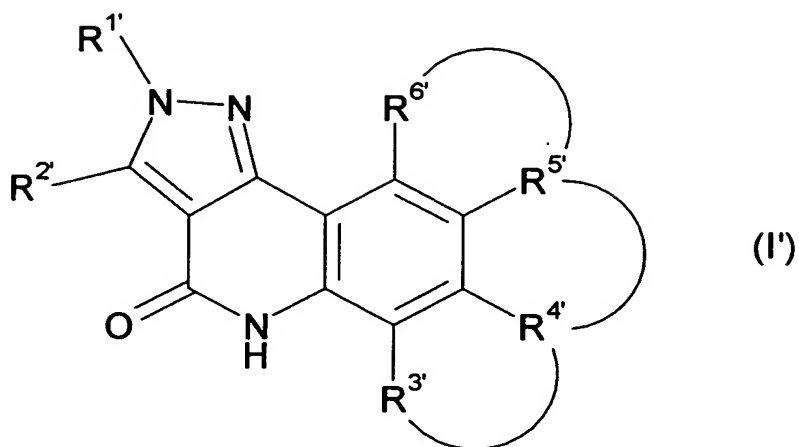
26. Use of the compound according to Claim 1 or a prodrug  
20 thereof, for the manufacture of a kinase inhibitor.

27. Use of the compound according to Claim 1 or a prodrug thereof, for the manufacture of an agent for the prophylaxis and/or treatment of cancer.

25

28. A compound represented by the formula:





wherein  $R^{1'}$  is a cycloalkyl group which may be substituted;  $R^{2'}$  is a hydrogen atom, an amino group which may be substituted, a hydroxy group which may be substituted, or a thiol group which  
 5 may be substituted;  $R^{3'}$ ,  $R^{4'}$ ,  $R^{5'}$  and  $R^{6'}$ , which may be identical or different, are each (1) a hydrogen atom, (2) a nitro group, (3) a cyano group, (4) a halogen atom, (5) a hydrocarbon group which may be substituted, (6) an amino group which may be substituted, (7) a hydroxy group which may be substituted, or  
 10 (8) a thiol group which may be substituted;  $R^{3'}$  and  $R^{4'}$ ,  $R^{4'}$  and  $R^{5'}$ , and  $R^{5'}$  and  $R^{6'}$  may respectively form a ring together with the adjacent carbon atom, or a salt thereof.